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## NOTICE OF ALLOWANCE AND FEE(S) DUE

25889

7590

02/05/2010

COLLARD & ROE, P.C. 1077 NORTHERN BOULEVARD ROSLYN, NY 11576 EXAMINER

BEHM, HARRY RAYMOND

ART UNIT PAPER NUMBER

2838 DATE MAILED: 02/05/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/577,336	04/28/2006	Andreas Luger	LUGER ET AL-1 PCT	5149

TITLE OF INVENTION: METHOD FOR SETTING SWITCHING TIMES, IN PARTICULAR IDLE TIMES, OF AN INVERTER BASED ON DETECTED

POWER, AND INVERTER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/05/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notificat	correspondence including ad below or directed off tions	ng the Patent, advance on herwise in Block 1, by (a	ders and notification of n a) specifying a new corres	naintenance fees will be pondence address; and	e mailed to the current or (b) indicating a sepa	correspondence address as arate "FEE ADDRESS" for	
		lock 1 for any change of address)	Fee(	s) Transmittal. This cer ers. Each additional par	tificate cannot be used f	or domestic mailings of the for any other accompanying ont or formal drawing, must	
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						(Depositor's name)	
			_			(Signature)	
						(Date)	
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nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/05/2010	
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
BEHM, HARR	Y RAYMOND	2838	363-098000	•			
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 2 or more recent) attach	unge of Correspondence "Indication form and Use of a Customer  A TO BE PRINTED ON To	2. For printing on the p  (1) the names of up to or agents OR, alternativ  (2) the name of a single registered attorney or a 2 registered patent attool listed, no name will be  THE PATENT (print or type data will appear on the part of	3 registered patent atteredy, e firm (having as a mer gent) and the names of meys or agents. If no ne printed.	nber a 2 i up to ame is 3	ocument has been filed for	
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☐ Issue Fee☐ Publication Fee (N	o small entity discount p	permitted)	☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached.				
Advance Order - # of Copies			The Director is hereby		e required fee(s), any de	eficiency, or credit any n extra copy of this form).	
a. Applicant claims	t <b>us</b> (from status indicate s SMALL ENTITY statu	us. See 37 CFR 1.27.	☐ b. Applicant is no long				
NOTE: The Issue Fee and interest as shown by the r	d Publication Fee (if requeords of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than the Office.	ne applicant; a registere	d attorney or agent; or th	ne assignee or other party in	
Authorized Signature				Date			
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an application. Confident submitting the completed his form and/or suggesti	iality is governed by 35 l application form to the ons for reducing this bu irginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th	1.14. This collection is est depending upon the indiverse Chief Information Office	imated to take 12 minu idual case. Any commo r. U.S. Patent and Trad	tes to complete, including the state on the amount of the emark Office, U.S. Den.	d by the USPTO to process) in gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,	

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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COLLARD & R	OE, P.C.	BEHM, HARRY RAYMOND			
1077 NORTHERN BOULEVARD			ART UNIT	PAPER NUMBER	
ROSLYN, NY 11:	576		2838	2838	
			DATE MAILED: 02/05/2010		

# **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 256 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 256 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)		
	10/577,336	LUGER ET AL.		
Notice of Allowability	Examiner	Art Unit		
	HARRY BEHM	2838		
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED i or other appropriate comm IGHTS. This application is and MPEP 1308.	n this application. If not included unication will be mailed in due cours	se. <b>THIS</b>	
1. This communication is responsive to the amendment dated	<u>d 12/16/09</u> .			
2. The allowed claim(s) is/are <u>11-12,15-16,18</u> .				
<ol> <li>Acknowledgment is made of a claim for foreign priority ur         <ul> <li>a)</li></ul></li></ol>	been received.  been received in Application cuments have been received of this communication to file IENT of this application.	on No  Indicate the control of the control	ments	
<ul> <li>5.  CORRECTED DRAWINGS ( as "replacement sheets") must be submitted. <ul> <li>(a)  hereto or 2  to Paper No./Mail Date</li> <li>(b)  hereto or 2  to Paper No./Mail Date</li> <li>(c) Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).</li> </ul> </li> <li>6.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.</li> </ul>				
Attachment(s)  1. Notice of References Cited (PTO-892)  2. Notice of Draftperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material  /Harry Behm/ Examiner, Art Unit 2838	6.  ☐ Interview S Paper No. 7.  ☐ Examiner's	nformal Patent Application Summary (PTO-413), /Mail Date s Amendment/Comment s Statement of Reasons for Allowand	ce	

### **DETAILED ACTION**

#### Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/16/09 has been entered.

## Response to Arguments

Applicant's arguments, see sheets 9-10, filed 12/16/09, with respect to the amended claims have been fully considered and are persuasive. The rejections of the amended claims have been withdrawn.

#### Allowable Subject Matter

Claims 11-12, 15-16 and 18 are allowed.

The following is an examiner's statement of reasons for allowance: The prior art does not disclose or suggest, in combination with the limitations of the base claim and any intervening claims, primarily, wherein the bridge inverter is designed for adapting a dead time for the switching elements as a function of the mean value of the current detected flowing over the primary winding of the transformer by selecting the dead time from a table with correspondingly stored data for the most varying mean values, the dead time representing a time of the switching elements for switching over from one switching element to a further switching element connected in series of the bridge

inverter, thereby ensuring that parasitic capacitances stored in the switching elements of the bridge inverter can be completely recharged and no excessively long switching pauses can occur at the same time.

The aforementioned limitations in combination with all remaining limitations of the respective claims are believed to render the aforementioned indicated claim and any dependent claims thereof patentable over the art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HARRY BEHM whose telephone number is (571)272-8929. The examiner can normally be reached on 7:00 am - 4:00 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Monica Lewis can be reached on (571) 272-1838. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/577,336 Page 4

Art Unit: 2838

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Harry Behm/ Examiner, Art Unit 2838